

Anti-CD144 Antibody

Catalog # AP95759

Product Information

Application	WB, FC
Primary Accession	P33151
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	87528

Additional Information

Gene ID	1003
Other Names	Cadherin-5; 7B4 antigen; Vascular endothelial cadherin; VE-cadherin; CD144
Target/Specificity	Recombinant fusion protein of human CD144 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/100 - 1/200)
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	CDH5 (HGNC:1764)
Function	Cadherins are calcium-dependent cell adhesion proteins (By similarity). They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types (PubMed:21269602). This cadherin may play a important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions (By similarity). It associates with alpha-catenin forming a link to the cytoskeleton (PubMed:10861224). Plays a role in coupling actin fibers to cell junctions in endothelial cells, via acting as a cell junctional complex anchor for AMOTL2 and MAGI1 (By similarity). Acts in concert with KRIT1 and PALS1 to establish and maintain correct endothelial cell polarity and vascular lumen (By similarity). These effects are mediated by recruitment and activation of the Par polarity complex and RAP1B (PubMed:20332120). Positively regulates reorientation of actin stress fibers and endothelial cell reorientation in response to cellular mechanotransduction (PubMed:25795300). Required for activation of PRKCZ and for the localization of phosphorylated PRKCZ, PARD3, TIAM1 and RAP1B to the cell junction (PubMed:20332120). Associates with CTNND1/p120-catenin to control CADH5 endocytosis (By similarity).

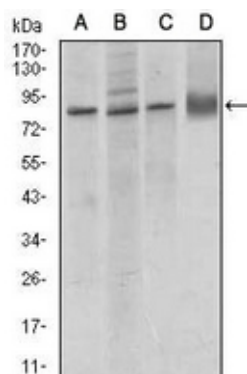
Cellular Location

Cell junction, adherens junction. Cell membrane; Single-pass type I membrane protein Cytoplasm {ECO:0000250 | UniProtKB:P55284}.
Note=Found at cell-cell boundaries and probably at cell-matrix boundaries. KRIT1 and CDH5 reciprocally regulate their localization to endothelial cell-cell junctions.

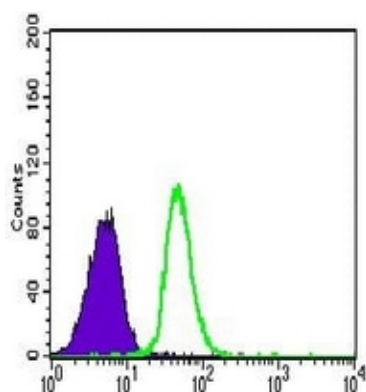
Tissue Location

Expressed in endothelial cells (at protein level) (PubMed:27338829).
Expressed in the brain (PubMed:2059658)

Images



Western blot analysis of CD144 expression in MCF7 (A), A549 (B), HUVE12 (C), rat lung (D) whole cell lysates.
(Predicted band size: 88 kD; Observed band size: 88 kD)



Flow cytometric analysis of Jurkat cells using Anti-CD144 Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.